## A DRAFT Agenda (as of 17 April 2014)

NOAA Science Challenge Workshop:

## **Predicting Arctic Weather and Climate and Related Impacts: Status and Requirements for Progress**

May 13-15 Earth System Research Laboratory Room GC-403 325 Broadway, Boulder CO

# Tuesday, May 13

Tucsuay, Ma	y 13	
8:00 am	Coffee & light breakfast / Registration, AV check-in, logistics	
8:30 am	Welcome to NOAA ESRL – Sandy MacDonald (NOAA ESRL Director)	
8:35 am	Workshop Overview and Objectives - Randy Dole (NOAA)	
1. The Drivers: US and NOAA Requirements for Advancing Arctic Predictions		
8:45 am	National Needs for Improved Arctic Weather & Climate Predictions – David Titley (PSU, Center for Solutions to Weather and Climate Risk)	
9:05 am	A Navy perspective on Current and Future Needs for Arctic Operational Predictions - RADM Jon White (USN)	
9:25 am	NOAA Imperatives, Drivers and Service Needs – David Kennedy (NOAA)	
9:40 am	NOAA NWS Arctic Operational Forecasting Perspectives – Ming Ji (NWS/NCEP)	
9:55 am	Arctic information and regional service needs— Aimee Devaris (NWS Regional Director— Alaska Region)	
10:10 am	Break	
2. Scientific Foundations for Improving Predictions		
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10:30 am	Arctic Science for Improving Predictions – John Walsh (University of Alaska, Fairbanks, CIFAR)
10:50 am	Arctic-lower latitude linkages: implications for weather and climate predictions – Judah Cohen (AER)

11:10 am Arctic sea ice predictability – Marika Holland, NCAR

11:30 am *Open discussion, with presenters of the first two sessions as panelists* 

12:00 pm *Lunch (on-site in Rm GB-124)* 

#### 3. Operational Predictions: Status, Challenges and Opportunities for Progress

1:00 pm *NOAA/NCEP* – Robert Grumbine

1:15 pm *Navy* – Rick Allard

1:30 pm National Ice Center & NAIS – Caryn Panowicz

1:45 pm *Environment Canada* – Hal Ritchie

2:00 pm *Open discussion, with presenters as panelists* 

2:30 pm *Break* 

## **Breakout group discussions - Key Challenges and Opportunities**

2:45 pm Breakout group guidance (Dole)

3:00 pm Breakout groups convene in breakout rooms

Consider end-to-end capabilities. Take advantage of cross-disciplinary expertise.

- Are there specific high priority problems where near-term progress is feasible?
- What are the critical gaps limiting progress?
- Are there common challenges that cut across several problems that, if addressed, would allow progress on multiple problems?

5:15 pm *Reconvene in Plenary – Summary, next steps* (Dole)

5:30 pm End of Day 1

6:30 pm *Group dinner for those interested (Chautauqua)* 

#### Wednesday, May 14

8:00 am Coffee & light breakfast, AV check-in

8:30 am Day 1 Recap, Day 2 Objectives (Randy Dole)

8:45 am **Day 1 Breakout summaries** 

Brief summaries ( $\sim$  5-10 minutes, 1-2 slides) from each breakout group followed by plenary discussion of key challenges and opportunities.

10:10 am Break

#### 4. International and National Partnership Opportunities

10:30 am	WWRP Polar Prediction Project, YOPP, MOSAiC – Chris Fairall (NOAA)
10:45 am	Forecast Evaluation and User-Focused Verification – Barb Brown (NCAR)
11:00 am	Earth System Prediction Capability – Dan Eleuterio (ONR)
11:15 am	Sea Ice Prediction Network - Julienne Stroeve (NSIDC)
11:30 am	Open discussion, with presenters as panelists
12:00 pm	Lunch (on-site in Rm GB-124)

#### 1:00 pm Breakout group discussions Day 2 - Requirements for Progress (cont.)

What are actions required for progress in improving Arctic predictions for NOAA, together with its partners, especially over the next 5-6 years?

- Requirements for improving Arctic predictions
- Requirements for improving understanding and predictions of Arctic-lower latitude linkages

How can NOAA work together with partners to address these challenges?

2:30 pm *Break* 

3:00 pm *Breakout groups reconvene* - Begin summarizing/drafting key recommendations for actions required for progress in predictions.

5:30 pm *End of day 2* 

8:00 am Coffee & light breakfast, AV check-in

### **5: Recommendations for NOAA Actions**

Plenary session

8:30 am Interagency Processes & Mechanisms IARPC & USARC – John Farrell (USARC)

8:45 am Breakout group summaries – opportunities, actions, partnerships

10:00 am Break

10:20 am *Open discussion* 

11:30 Initial summary of findings; next steps

12:00 pm End of Meeting